



Kent County Transportation Operations Management Plan (TOMP) Benefits of DE 1 Grade-Separated Intersection Projects

The DE 1 grade-separated intersection (GSI) projects have significantly reduced delay despite increases in traffic volumes.



About the Project

- To extend the expressway section of DE 1, signalized and stop controlled intersections in Little Heaven, South Frederica, and Thompsonville have been replaced with three GSIs with on- and off-ramps.
- Construction took place between fall 2015 and summer 2019. During construction, DeIDOT monitored travel times in the project area and informed drivers of delays.
- These projects were born out of the Corridor Capacity Preservation Program which is aimed at maximizing the value of existing roadway infrastructure.

Fast Facts

- In the study period from 2015 to 2019:
- Daily traffic on DE 1 increased 14%, but peak-period travel times and reliability improved because the new interchanges increased capacity.
 - The crash rate decreased 23%, and the number of crashes resulting in an injury or fatality decreased 58%.

